Surface Mounted Schottky Barrier Diode

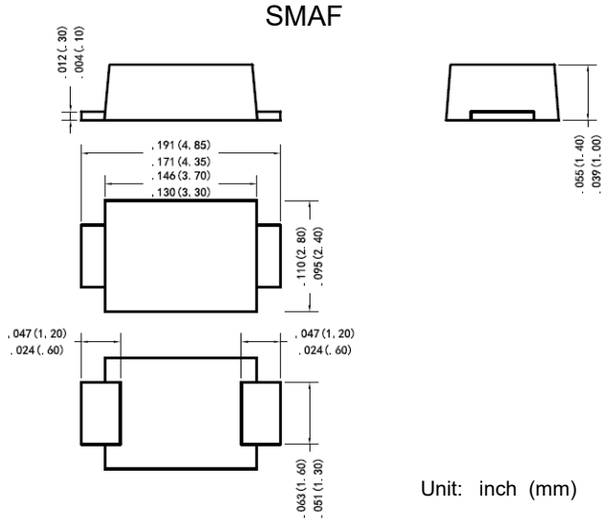
Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260℃/10seconds
- Lead and body according with RoHS standard

Mechanical Data

- Case:SMAF Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

SMAF



Unit: inch (mm)

Maximum Ratings & Characteristics (T_A=25°C unless otherwise noted)

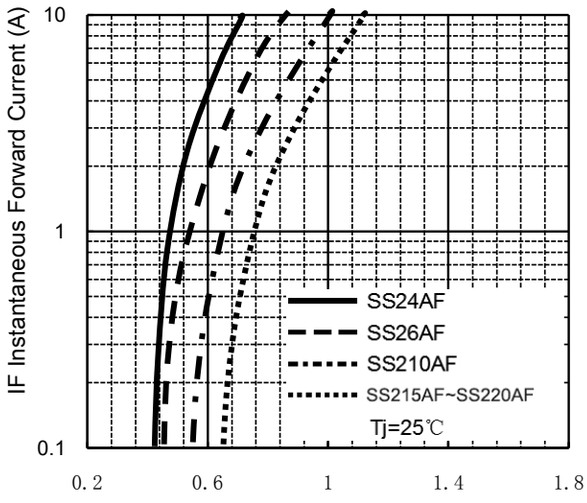
Parameter	Symbols	SS24AF	SS26AF	SS210AF	SS215AF	SS220AF	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V_{DC}	40	60	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0					A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	50					A
Maximum forward voltage	V_F	0.55	0.70	0.85	0.95		V
Maximum reverse current TA= 25	I_R	500		50			μA
Maximum reverse current TA= 100℃	I_R	20		10			mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	85					℃/W
Typical thermal resistance (Note 1)	$R_{\theta JL}$	20					℃/W
VR=4.0V,f=1MHz Type junction capacitance	C_J	120					pF
Operating junction	T_J	-55 --- +125		-55 --- +150			℃
Storage temperature rang	T_{STG}	-55 --- +150					℃

Note:

1) Thermal resistance from junction to ambient , PCB mounted.

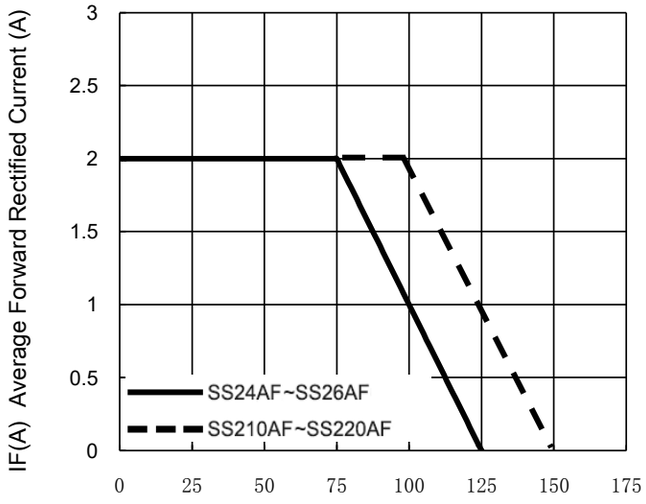
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



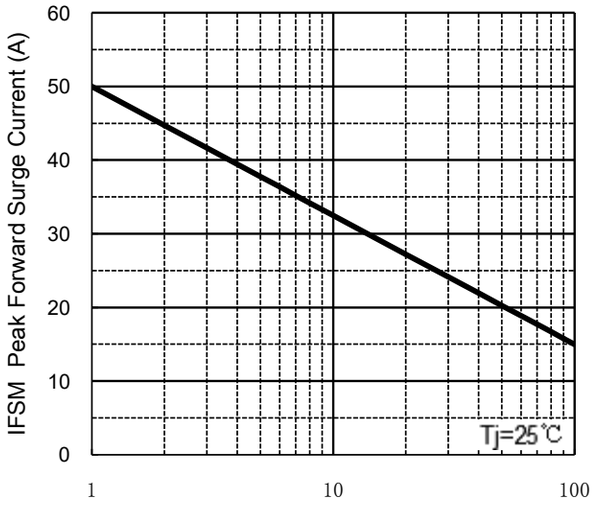
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



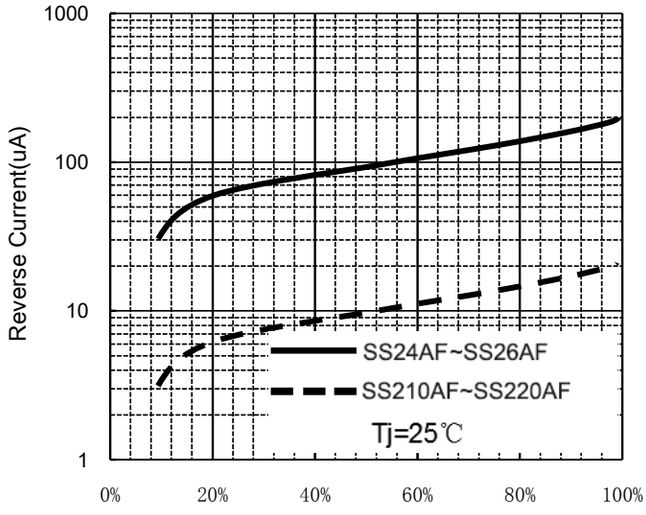
T_L, Lead temperature (°C)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %